King Tao Jason **Ng**

Profile Summary

I am an experienced data scientist with expertise in data science, machine learning, natural language processing, and software engineering, with a strong focus on ensuring compliance with financial market regulations.

Contact details

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Personal information

Citizenship: **Australian**
Languages: **English**, **Chinese**

Skills

- Leadership, People Management
- Project Management, Business Analysis, Vendor Management
- Data Governance
- Machine Learning, Statistics, Natural Language Processing
- Software Engineering, Software Quality Assurance
- Databricks, Elastic Stack, Microsoft Power BI
- Python, R, C, C++, KDB+/Q

Experience

Senior Data Scientist **Jul 2022 - Present**
Chief Data and Analytics Office, ASIC

◇ Led the implementation of the *Licensing ML Proof of Concept*, *Knowledge Management Metadata Extraction*, and *Lessons Learned Lite Review*.

◇ Successfully delivered the *Lessons Learned Lite Review* and was nominated for the *Australia Day Achievement Award*.

Senior Data Scientist (Secondment) **Sep 2025 - Feb 2026**
Superannuation & Life Insurance, ASIC

◇ Led the implementation of red flag detection measures for superannuation funds, strengthening oversight.

◇ Successfully implemented red flag detection measures for the superannuation team, receiving excellent feedback.

Sessional Teaching Academic **Feb 2022 - Jun 2022**
School of Computing, Macquarie University

◇ Tutored and led coursework for Document Processing and Semantic Technologies (COMP3220).

Senior Analytics Platform Owner **Jul 2021 - Jul 2022**
Chief Data and Analytics Office, ASIC

◇ Led the promotion and management of *Databricks*, *RStudio Servers*, *Python Servers*, and the *Data Science Lab*, ensuring optimal performance.

◇ Proposed the *Databricks* roadmap, outlining onboarding strategies, workflow setup, and best practices to enhance efficiency and collaboration among data analysts.

Data Scientist **Oct 2019 - Jul 2021**
Chief Data and Analytics Office, ASIC

◇ Led the development and implementation of *NLP Prospectuses*, leveraging NLP to extract insights and improve document analysis.

◇ Successfully deployed the *NLP Prospectuses* to the Corporation team.

Data Scientist **Aug 2017 - Jun 2019**
School of Computer Science, University of Sydney

◇ Designed and developed a Researcher Collaboration Recommendation System using *Python* and *D3.js*, enabling data-driven connections and enhancing research networking through interactive visualizations.

◇ Invited to present at *The 16th Australasian Data Mining Conference*.

Analyst **Jul 2016 - Oct 2019**
Market Infrastructure, ASIC

◇ Proposed and implemented a *Wash Trade Detection* analytics using KDB+/Q, enhancing market surveillance and regulatory compliance.

◇ Received excellent feedback from the senior management team after delivering the *Wash Trade Detection* analytics.

Analyst **Jan 2013 - Jul 2016**
Market & Participant Supervision, ASIC

◇ Led the development and implementation of a *Market Analysis and Intelligence Surveillance System*, improving market cleanliness.

◇ Successfully launched the *Market Analysis and Intelligence Surveillance System*, earning the *Australia Day Achievement Award* in recognition of the accomplishment.

Achievements

- **Australia Day Achievement Award**, ASIC, Launched Market Analysis and Intelligence Surveillance System
- **ARI Award**, Aristocrat Technologies Australia
- **Competent Communicator**, Toastmasters International

Intranet Programmer **Oct 2011 - Dec 2011**
Information and Communications Technology, Scots College

◇ Oversaw the maintenance and management of *IBM DB2*, ensuring database reliability, performance, and security.

Domain Analyst **Mar 2011 - May 2011**
Wagering Technology, Tabcorp Holdings Limited

◇ Led and managed requirements gathering for the *Customer Loyalty Project*, ensuring alignment with business objectives and stakeholder needs.

Software Engineer **Jul 2008 - Mar 2011**
Studio Development, Aristocrat Technologies Australia

◇ Designed and developed gaming applications using C and C++, creating engaging user experiences.

◇ Successfully developed the game *Peeking Duck*, which received highly positive feedback from the gaming floors.

Graduate Software Engineer **Jul 2007 - Jul 2008**
Platform Development, Aristocrat Technologies Australia

◇ Designed and developed networking protocols for casino management systems using C and C++, ensuring secure and efficient communication across the platforms.

◇ Successfully proposed a third-party licensing initiative to the executive team, leading to the development of *JAW* gaming the following year.

Graduate Test Engineer **Jan 2007 - Jul 2007**
Software Integrity Testing, Aristocrat Technologies Australia

◇ Developed comprehensive test plans and performed unit and integration testing to ensure high-quality, reliable software delivery.

Education

Master of Research, *Macquarie University* **Jul 2021 - Oct 2023**

◇ Identifying Causal Directions from Text: Unsupervised Learning using Bayesian Framework

Master of Data Science, *University of Sydney* **Mar 2016 - Jul 2019**

◇ Academic Capability Mapping

Master of Economics, *University of Sydney* **Mar 2008 - Jul 2012**

Master of Information Technology, *UNSW* **Jul 2005 - Dec 2007**

Bachelor of Science, *UNSW* **Jul 2001 - Mar 2005**

Publications

Exploring Causal Directions through Word Occurrences: Semi-supervised Bayesian Classification Framework, ***King Tao Jason Ng*** *and Diego Mollá. The 21st Annual Workshop of the Australasian Language Technology Association, Melbourne, VIC, Australia, November 29 - December 1, 2023*

Hierarchical Word Mover Distance for Collaboration Recommender System, *Chao Sun,* ***King Tao Jason Ng****, Philip Henville and Roman Marchant. The 16th Australasian Data Mining Conference, AusDM 2018, Bathurst, NSW, Australia, November 28 - 30, 2018, Revised Selected Papers*